



Unmanned Underwater Vehicle Neutralization (UUV-N) Technology Interests 19 July 2005

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BAA Guidance



- "Descriptive information is sought in the form of white papers, brochures, specification sheets, briefings and company points of contact. Also of interest are concepts based on existing equipment or proven technologies that are planned to become available in the 2005/2007 timeframe. Limited funding is available for design proposals and demonstrations."
- If government funding is required for design proposals and demonstrations:
 - Request concise descriptions (NTE 5 pages) on topics discussed in the following slides NLT 30 August
 - Descriptions should include as a minimum: Overview of effort proposed, deliverables, cost, and schedule
- Government selection of design proposals and demonstrations for funding will be based on utility of proposed effort in CONOPS and first generation systems specification validation.
- The government will notify selected vendors NLT 30 October of an intent to award a contract. Any contract award will be in accordance with Federal Acquisition Regulations.



BAA DON-SNOTE-050627-003 Areas of Interest



- Advanced Sensors for Precise Target Reacquisition in Surge Environment
 - Improvements to Rotating Head Sonar
 - Low Cost electronically scanned sonars
- Countercharge Station Keeping in Surge Environment
 - Fight environment or go with the flow in order to reacquire and neutralize



BAA DON-SNOTE-050627-003 Areas of Interest (Cont'd)



- Countercharge Standby
 - 14 days standby desired
- UUV Precise Autonomous Guidance to Target Positions
 - Reduces load on operator
 - Allows multiple vehicle launch
 - Reduce Bandwidth for Radio Frequency Link



BAA DON-SNOTE-050627-003 Areas of Interest (Cont'd)



- Explosive Devices for Neutralizing Influence Mines
 - Shape charges, bulk charges, Test Results and Experiences
- UUV Design and Control in Surge Environment
 - Techniques, Hydrodynamics, thrusters, fins
- Hydrodynamic Models for Characterization of the VSW Zone
 - Input for Models



BAA DON-SNOTE-050627-003 Areas of Interest (Cont'd)



- RF Data Links and Data Management Techniques
 - Compression, Human System Integration, increase autonomy
- VSW Test Facilities
 - Wave tanks with variable bathymetry, relevant testing and locations